USSR/Physics of the Earth - Seismology, 0-3

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36380

Abstract: in an unlimited medium. When the time becomes large, a secondary wave occurs, following the fundamental one. Its amplitude may become greater than the amplitude of the basic pulse, although both amplitudes may turn out to be quite small as a result of attenua-

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CIA-RDP86-00513R000617410019-2 "APPROVED FOR RELEASE: 03/20/2001

USSR/Geophysics - Seismology

PD-1786

Card 1/1

Pub 45-8/18

Author

: Gurevich, G. I.

Title

Length and form of the wave occurring during rupture

Periodical: Izv. AN SSSR, Ser. geofiz. 261-264, May-Jun 1955

Abstract

: With Ye. F. Savarenskiy and D. P. Kirnos (1949), the author believes that the probable source of tectonic earthquakes is the movement of tectonic fractures along the surfaces, as indicated by determinations (by V. I. Keylis-Borok, D. A. Kharin, S. D. Kogan) of the dynamic parameters of earthquake foci. Here the author illustrates these notions by means of the simplest scheme of oscillations resulting from displaced rupture in the case of an unbounded ideally elastic medium with given density and modulus of displacement. Five references; e. g. G. A. Gamburtsev, "New methods and apparatus for the recording of seismic phenomena, "Trudy Geofiz. in-ta AN SSSR,

No 25 (152), 1952.

Institution: Geophysical Institute, Academy of Sciences USSR

Submitted: June 28, 1954

त्र र हे इस विकास सिर्मा सिर्मा हो सुने का स्थाप की सिर्म की सम्मान सिर्मा के साम सिर्मा की स्थाप की स्थाप का स

GUR. EVICH, G.I.

USSR/Physics of the Earth - Origin and Structure of the Earth, 0-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36322

Author: Gurevich, G. I.

Institution: Institute of Physics of the Earth, Academy of Sciences USSR,

Moscow

Title: On the Basic Features of the Behavior of Anomalous Liquids

(Relative to the Problem of the Solid-Liguid State)

Original

Periodical: Tr. Geofiz. in-ta AN SSSR, 1955, No 31, 107-134

Abstract: Earlier the author has worked out (Tr. Geofiz. in-ta AN SSSR, 1955,

No 31, 107-134) the premises that the materials of -various structures are characterized by common basic law of deformation over the

entire range of variation in their state, from the solid state to the liquel state. For the purpose of verification, the applicability of these premises is considered as applied to "anomalous

liquids (colloidal solutions, coarsely-dispersed systems, consis-

tent lubricants, etc). The basic feature, distinguishing anomalous

Card 1/5

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USSR/Physics of the Earth - Origin and Structure of the Earth, 0-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36322

Abstract: liquids from "normal" Newtonian ones, is the nonlinear dependence of the amount of limit flowing per unit tube cross section in steadystate laminar motion, and the pressure difference per unit length. Externally, these dependences have different forms for different anomalous liquids. In connection with this, it is customary in rheology to subdivide anomalous liquids (as well as other substances) into different classes of "rheological bodies" (Newtonian types, Bingham types, bodies having "limiting shear stresses" but are not Bingham bodies, bodies that have no limiting shear stresses, but are not Newtonian, etc). However, when the conditions of the action and of the observation change, the same substance, not having a structure, may be converted from one "rheological body" into another. Moreover, the same dependence of stress on the speed of shear, plotted in different time scales, characterizes in one case a body without any "limiting shear stresses" To, and in another a body with a clearly defined To, continuously changing from one form into another.

Card 2/5

USSR/Physics of the Earth - Origin and Structure of the Earth, 0-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36322

Abstract: Experimental data on the the tate flow in these viscosimeters (at constant temperature) of both Newtonian as well as anomalous liquids,

assigned to various rheological classes, can be interpreted, starting with the same law: $\frac{dv}{dt} = \frac{Te^{AT}}{t}$

(1) The relationship derived from this between N (the number of revolutions per second of the external cylinder of a rotational viscosimeter) and P (the load under whose influence a cylinder rotates) is of the form: $N = \frac{1}{B} \left[10^{\frac{R_1}{R_2}} + \frac{1}{R_2} \right]^2 MP, \qquad (2)$

where R₁ and R₂ are the radii of the internal and external cylinders, and M and B depend on the values of the structural parameters of the material A and 7 in equation (1) and on the dimensions of the instrument. This dependence provides a sufficiently good interpretation in practice for the experimental data obtained by M. P. Volarovich and Ye. P. Loshakova (Kolloid. zh., 1946, 8, No 3, 127), with a rotational viscosimeter built by M. P. Volarovich for many various consistent lubricants (of the Bingham type, Newtonian,

Card 3/5

USSR/Physics of the Earth - Origin and Structure of the Earth, 0-2

Abst Journal: Referet Zhur - Fizika, No 12, 1956, 36322

Abstract: plastic but not of the Bingham type, etc) leading in the case of small values of A to the well known relationship between N and P for the Newtonian liquid. The connection obtained on the basis of equation (1) between Q and $\Delta p/1$, observed with the aid of a capillary viscosimeter, also becomes the usual Poiseuil law for small values of A and yields for lowest values of A the so-called "velocity profile" (distribution of displacement velocity over the section of the tube), typical for anomalous liquids. Thes, the sharp difference between the "anomalous" and "normal" liquids under identical action conditions may be ascribed to the difference in the parameters A and η of the same initial differential law. One can proceed to describe the transient state analogously. This is illustrated by an interpretation of the experiments by G. V. Vinogradov and M. M. Gvozdev (Dokl. AN SSSR, 1952, 86, No 2, 341) who used the Klimov torsion elastometer to plot the relationship between the shear angle and the tangential stress T of solidal at different specified rates of increase in the value of t from zero.

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APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617410019-2"

From the same premises, one can approach an interpretation of the available experimental data on the deformation of mountain rocks

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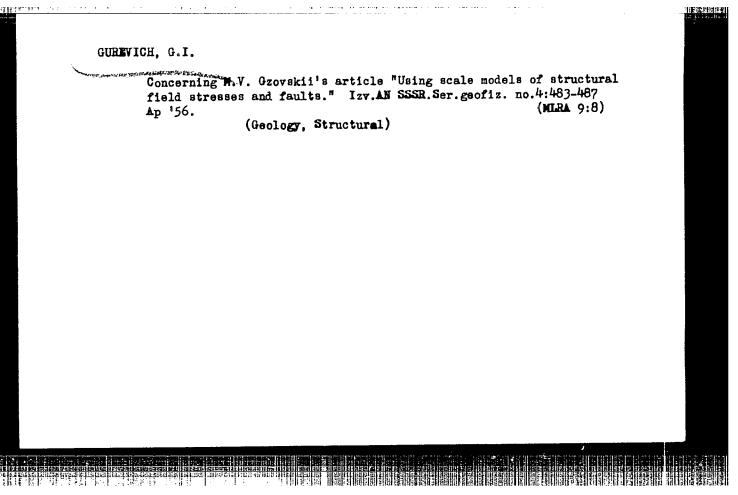
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USSR/Physics of the Earth - Origin and Structure of the Earth, 0-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36322

Abstract: and to an understanding of the laws of their deformation under natural conditions. The author's equations describe the laws of the deformation only in the most general and basic outlines (without taking into account the anisotropy, the elastic after effects, hardening, and other phenomena, which may turn out quite substantial for individual problems. However, in the first stage it is exactly this general foundation, which characterizes the behavior of various materials under various gradations of solid-liquid state, that needs to be clarified.

Card 5/5



AUTHOR: Gurevich G. I. SOV/20-: 20-5-: 6/67

TITLE: Relations Between the Stress Tensor and the Rate of Deformation Tensor in the General Case of Great and Small Deformations (0

zavisimosti mezhdu tenzorami napryazheniy i skorostey deformatsi.

v obshchem sluchaye bolishikh i malykh deformarsiy)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 120, Nx 5, pp. 987 -

990 (USSR)

国的国际的复数形式 经净 电影频 医骨髓 1992年

ABSTRACT: According to previous investigations (Refs 3 - 6) Maxwell's

(Maksvell) law of deformation holds in general for bodies in the deformed state. In those papers this law was given for the case of small deformations, in this work it is deduced for

arbitrarily great deformations. Let the body be free from loads and without remanent stresses at $t \le 0$. At t > 0 the body is

and without remanent stresses at to 0. At too the tody is assumed to be deformed in an arbitrary manner. Its elastically deformed shape is considered to deviate at arbitrary times only

little from the equilibrium state. Under these assumptions the shape of the body can only change because of a remanent (ir

reversible) deformation. The following equation is found to Card 1/3 govern the relation between the tensor of deformation rate (

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Relations Between the Stress Tensor and the Rate of Deformation Tensor in the General Case of Great and Small Deformations.

and the stress tensor G:

 $2 \frac{dG}{dt} = \frac{dG}{dt} + \frac{G}{T} - \left(\frac{3}{1+\gamma} \frac{d\sigma_{mean}}{dt} + \frac{\sigma_{mean}}{T}\right) + \frac{1}{3},$ where α denotes the torsion modulus, γ the Poisson (Puasson) coefficient, σ mean stress, and I the unit vector. This

tensor equation is independent of the frame of reference, it is, however specialized for a Cartesian coordinate system resting in space. This equation is supplemented by three equations of motion, thus resulting a complete system of 9 equations, which permits to solve for the 9 unknowns u_i and σ_{ij} at given initial and boundary conditions, σ_{ij} denotes the stress tensor and u_i the projections of the displacements of the point under consideration. A number of special cases is mentioned. There are 6 references, 5 of which are Soviet.

Card 2/3

SOV/20-120-5-16/67

Relations Between the Stress Tensor and the Rate of Deformation Tensor in the General Case of Great and Small Deformations

ASSOCIATION:

Institut fiziki Zemli im. O. Yu. Shmidta Akademii nauk SSSR

(Institute of the Physics of the Earth imen: O. Yu. Shmidt

AS USSR)

PRESENTED:

October 19, 1957, by A. P. Aleksandrov, Member, Academy of

Sciences, USSR

SUBMITTED:

October 7, 1957

1. Materials—Deformation 2. Stress analysis 3. Mathematics

Card 3/3

LAREVICH, G.L.

24(6)

PHASE I BOOK EXPLOITATION

SOV/2250

Akademiya nauk SSSR. Institut fiziki zemli

Nekotoryye voprosy mekhaniki deformiruyemykh sred (Some Problems in the Mechanics of Deformable Media) Moscow, Izd-vo AN SSSR, 1959. 219 p. (Series: Its: Trudy, Nr. 2 /169/) Errata slip inserted. 2,000 copies printed.

Ed.: V.A. Magnitskiy, Doctor of Technical Sciences; Ed. of Publishing House: V.A. Kalinin; Tech. Ed.: Yu. V. Rylina.

PURPOSE: This book is intended for engineers and geophysicists concerned with problems of deformations.

COVERAGE: This collection consists of eight articles on the mechanics of deformations in solid plastic media as applied to the solution of geophysical and engineering problems. No personalities are mentioned. References appear at the end of each article.

TABLE OF CONTENTS:

Card 1/5

SOV/2250 Some Problems (Cont.) Gurevich, G.I., and A.L. Rabinovich. Relation Between Stresses and Displacements in Large Deformations for the Case of a One-3 dimensional Problem In the analytical study of geometrical and kinetic deformations of elastic and residual nature, which are of signficance in attenuation and dispersion of seismic waves, the authors derive 12 general equations of motion. Gurevich, G.I. Relation Between Stresses and Displacements in Large Deformations for the General Case of a Three-dimensional 27 Load The author considers the application of Maxwell's equation to a case of a residually deformed solid-liquid body which can be considered as a "massive" one and to which the usual formulas of the theory of elasticity are applicable. Gurevich, G.I. Generalized Maxwell Equation for Three Measurements Taking Into Consideration Small Elastic Aftereffect Deformations 60 In the study of rock behavior in cases of static and dynamic Card 2/5

Some Problems (Cont.)

SOV/2250

loading, the usual Maxwell's equation is not adequate. Taking into account the additional components of deformation, a new equation embodying the relationship between shear deformation and the velocity of full shear deformation is analyzed.

Gurevich, G.I. Initial Considerations in the Approach to Tectonic Modeling 75

The author deals with considerations in the application of the principle of similitude to the modeling of tectonic and hydrodynamic processes in the solution of geodynamic problems. The following names are mentioned: B.L. Shneyerson, Ye. N. Lyustikh, A.A. Ilyushin, N.V. Gzovskiy.

Khaykovich, I.M. Propagation of Vibrations in a Medium With Relaxation of Stresses

The theory of propagation of seismic waves in an ideally elastic medium is not adequate for purposes of interpretation. The present article establishes the quantitative corrections for a half-space subjected to axially symmetric loading. Maxwell's three-dimensional equation is used in finding a solution for corrections. The following names are mentioned: G.I. Card 3/5

Some Problems (Cont.)

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SOV/2250

Petrachen', K.I. Ogurtsov.

Khaykovich, I.M. Beam Method of Computing the Wave Intensity in a Relaxing Medium With a Large Relaxation Time The author refers to various scientists offering the solution of nonstationary problems in the theory of elasticity leading to the determination of the intensity and the force of reflected waves. He introduces a so-called beam method for computing the propagation of a wave in nonideal elastic media. The following names are mentioned: G.I. Petrashen', V.M. Babich, G.O. Gurevich.

Sherman, D.I. Problem of the Stressed Condition of a Semiplane Without External Load and With Two Sunken Circular Orifices 187 The article discusses the distribution of stresses caused by gravity in media weakened by holes or openings. problem is of interest in analyzing the rock pressure in the neighborhood of shaft openings and for the study of seismic conditions.

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Some Problems (Cont.)

SOV/2250

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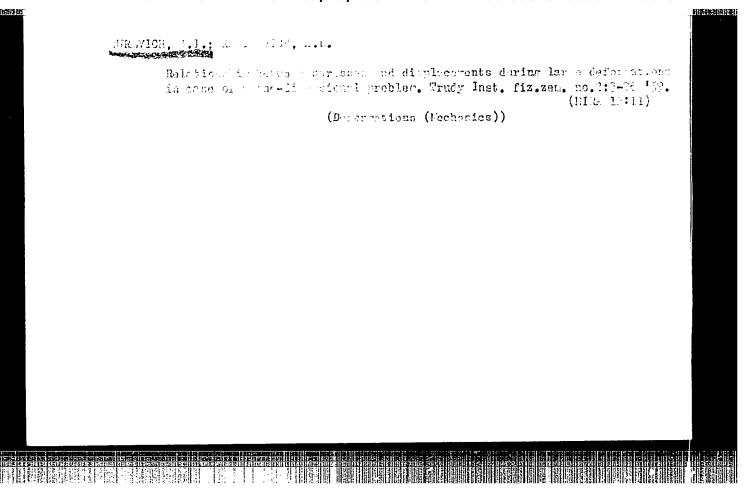
The author considers the process of residual deformation in a hollow cylinder and takes into account the time changes of stresses and deformations. This problem is of interest in theoretical studies of seismic behavior and also in studies of the relationship between the creep and interior pressure in pipes. The following names are mentioned: A.F. Golovin, L.I. Kachanov, A.A. Abramov, L.G. Shershen', I.K. Snitko.

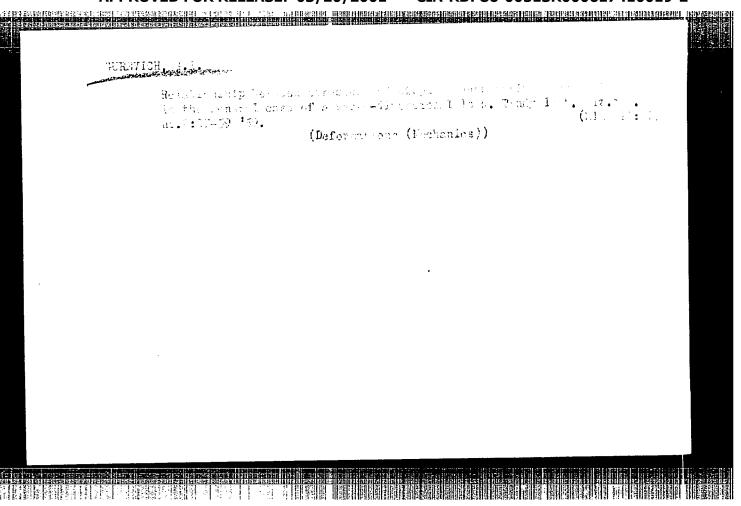
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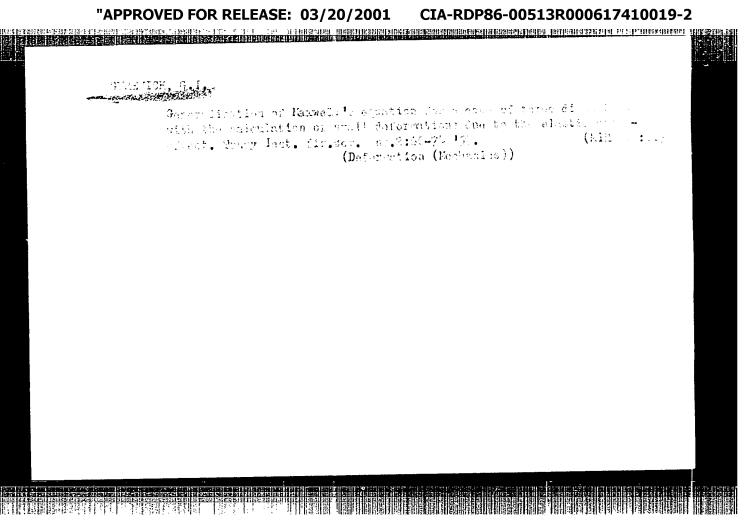
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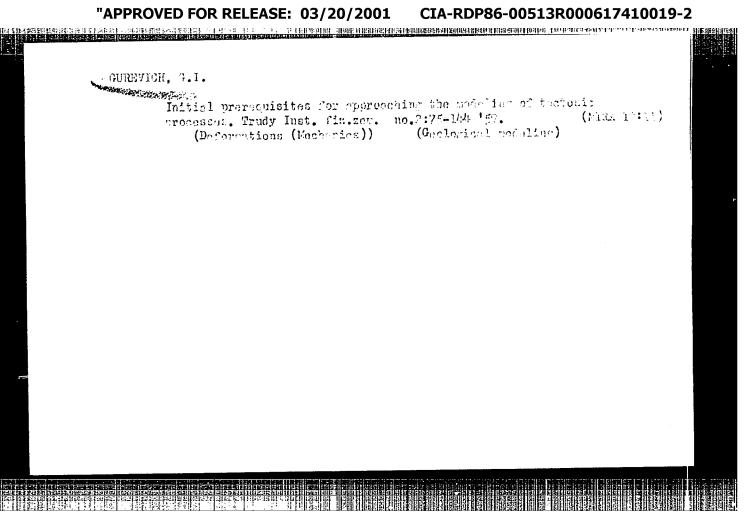


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66414 3.9300SOV/20-128-6-18/63 Gurevich, G. I., Nersesov, I. L., Kuznetsov, K. K. AUTHORS: On the Law of Earthquake Recurrence in Consequence of the Rules TITLE: Governing the Deformation and Comminution of Rocks Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 6, pp 1163-1166 PERIODICAL: (USSR) Yu. V. Riznichenko and I. L. Nersesov (Ref 1) proved the uni-ABSTRACT: versal character of the relation $\lg \frac{N_S(E)}{N_S(E^*)} = -\gamma \lg \frac{E}{E^*}$, where $N_{c}(E)$ denotes the small-centered earthquake recurrence (i.e. the annual number per unit of the seismic zone), E their energy, E* one of the values of E; furthermore, $\gamma \cong 0.4$ - 0.45 holds. The above relation holds true in nearly the entire range of the measured E (107 - 1025 erg). Only in the proximity of the largest E of the zone for which the above equation is set up, γ strongly increases with rising E. The comminution of solid bodies is correlated with a similar relation $lg \frac{N(V)}{N(V_{min})}$ Card 1/4

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SOV/20-128-6-18/63

On the Law of Earthquake Recurrence in Consequence of the Rules Governing the Deformation and Comminution of Rocks

= $-\frac{1}{7} \lg \frac{v}{v_{\min}}$, where N(v) denotes the number of those sample

fragments whose volumes v are placed between v and 10 v, and v the smallest among the v considered. Furthermore, $\bar{\gamma} \cong 0.6$ - 0.7 holds under the condition of a moderate degree of comminution, and that v_{\min} be larger than the volume of those particles which are rubbed off from the surface of the fragments. The above relation is practically determined only by the rule governing the sample straying through the separation plane. A diagram shows the summed results of experiments made on 20 samples of cement, colophony, and on various rocks. The second equation written above can be provisionally explained by considering that the new separation planes are formed mainly between the closest of the earlier thrown up separation boundaries. Energy E is computed as that energy which separates on : the surface of a sphere having the chosen radius R. This radius is assumed to be the same for all earthquakes. For the various seismic zones, the largest among the three main tangential

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SOV/20-128-6-18/63

On the Law of Earthquake Recurrence in Consequence of the Rules Governing the Deformation and Comminution of Rocks

stresses is of the order of magnitude 1 - 10 kg/cm². Hence, E_0 may be stated as being proportional to the volume of the hearth $v_0=(4\pi/3)r_0^3$. Within the scope of the problem under investigation, the macroscopic characteristics of the state of the seismically active region of the earth crust (seismic zone) may be computed by means of the sole quantity $\tau_{max}=\eta\dot{\epsilon}$, ϵ denoting the largest among the three main shearing rates of the remanent (irreversible) zone deformation, η the mean value of the effective toughness in steady rock currents. The authors also investigated the typical case of earthquakes originating from the contact zone of two geological massifs moving with relative velocity F. For the recurrence of earthquakes the relation

 $N_V \simeq \frac{1}{TL^3} \left[\frac{L^3}{v_0} \right]^{2/3}$ is found, which may also be expressed by $\dot{\epsilon}$, T_{max} , E_o , and E. L denotes the zone width with the volume V = LS,

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SOV/20-128-6-18/63

On the Law of Earthquake Recurrence in Consequence of the Rules Governing the Deformation and Comminution of Rocks

where S is the surface area of its section with the shearing plane. The formula derived here is in general agreement with seismological data. There are 1 figure and 3 references, 2 of which are Soviet.

ASSOCIATION: Institut fiziki Zemli im. O. Yu. Shmidta Akademii nauk SSSR

(Institute of the Physics of the Earth imeni O. Yu. Shmidt of

the Academy of Sciences, USSR)

PRESENTED: June 11, 1959, by A. F. Ioffe, Academician

SUBMITTED: June 8, 1959

Card 4/4

25330

S/020/61/138/006/006/019 B104/B214

24 4100

Gurevich, G.I.

AUTHOR:

The theory of oscillations with small amplitude

PERIODICAL: Akademija nauk SSSR. Doklady, v. 138, no. 6, 1961, 1313-1316

TEXT: In the introduction the author refers to the fact that in the propagation of oscillations of small amplitude in metals, rocks, inorganic glasses, and high polymers the logarithmic decrement is practically independent of the frequency. This is shown to be related with the non-independent of the frequency. This is shown to be related with the non-Hooke deformations which occur for these oscillations and are independent of the special microstructures of the different substances. The differences between Hooke and non-Hooke deformations are discussed exhaustively. In non-Hooke deformations there takes place a regrouping of the different elements of the microstructure of the substance concerned. As model serves a system of similar, bound particles which regroup themselves from time to time into equilibrium positions. If in this case the bindings with the old positions disappear this is an irreversible, permanent deformation: Equipment of the substance of the substance concerned. The server is the bindings with the old positions disappear this is an irreversible, permanent deformation: Equipment of the substance of the substance

S/020/61/138/006/006/019
The theory of oscillations ... B104/B214

(1) (n = 1, 2, 3) (G.I. Gurevich, Tr. Geofiz. inst. AN SSSR, no. 21, 1953)),

where $\theta_{\Gamma} = \sum_{n=1}^{\infty} e_n$. In this earlier paper Eq. (1) was derived without con-

sideration of the fact that in a regrouping different numbers of particles are involved depending on the fluctuation energy U. If this fluctuation is considered one obtains:

$$\frac{de_{\text{oct},n}}{dt} = \int_{U_{\bullet}}^{NU_{\bullet}} \left[\frac{(e_n - \theta_r/3)}{T_{\text{oct}}} \right] \exp\left\{ -\frac{U - U_{\bullet}}{k\theta} \right\} \frac{dU}{k\theta}, \qquad (2)$$

Here U is the energy consumed by a particle participating in the regrouping; k is the Boltzmann's constant; is the temperature and N the number of particles of the model. On account of the Boltzmann distribution of the energy fluctuations this expression can be represented as a sum of the velocities $(e_n - \theta_\Gamma/3)/T_{OCT}^*$:

Card 2/5

The theory of oscillations ...

 $\frac{de_{\text{oct,n}}}{dt} = \int_{T_{\text{oct}}}^{\infty} \frac{de_{\text{oct,n}}^{*}}{dt} \frac{dT_{\text{oct}}^{*}}{T_{\text{oct}}^{*}} = \int_{T_{\text{oct}}}^{\infty} \frac{e_{n} - \theta_{r}/3}{T_{\text{oct}}^{*}} \frac{dT_{\text{oct}}^{*}}{T_{\text{oct}}^{*}}$ (3)

The components e of the non-Hooke deformations arising from small energy fluctuations cause no irreversible regrouping. They give rise, however, to very slight reversible displacements of the microparticles. e is called as the principal component of the deformation of the aftereffect. Analogously to (1) one obtains here:

$$\frac{de_{\mathbf{y},\eta}}{dt} = \int_{T_{\mathbf{y}}}^{T_{\mathbf{M}}} \left(\frac{de_{\mathbf{y},n}^{*}}{dt}\right) \frac{dT_{\mathbf{y}}^{*}}{T_{\mathbf{y}}^{*}} \quad (n = 1, 2, 3), \tag{4}$$

where $T_{M} = T_{y} exp\{(U_{o} - U_{o,y})/K^{3/3}\}$, and

$$\frac{de_{y,n}^{*}}{dt} = \frac{\mu (e_{n} - \theta_{r}/3) - \mu_{y} (e_{y,n}^{*} - \theta_{y}^{*}/3)}{T_{y}^{*} (\mu + \mu_{y})} + \frac{K\theta_{r} - K_{y}\theta_{y}^{*}}{3T_{y}^{*} (K + K_{y})},$$
 (5)

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The theory of oscillations ...

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holds for $de_{y,n}/dt$. Here $0* = \sum_{n=1}^{\infty} e_{y,n}^*$, and n a

$$\frac{1}{\rho} \frac{\partial}{\partial t} \left[(\lambda + \mu) \frac{\partial 0}{\partial x_i} + \mu \nabla^2 u_f \right] =$$

$$= \frac{\partial^2 u_i}{\partial t^3} + \frac{1}{T_y R} \int_{\exp(-R)}^{1} \left[\frac{g}{\mu_y^*} \exp\left\{ - \frac{g t \xi}{\mu T_y} \right\} \int_{0}^{t} \exp\left\{ \frac{g}{\mu} \frac{t \xi}{T_y} \right\} \left(\frac{\partial^2 u_f}{\partial t^3} - \frac{K}{\rho} \frac{\partial^2 \theta_r}{\partial t \partial x_i} \right) dt +$$

$$+ \frac{G}{K_y^*} \exp\left\{ - \frac{G t \xi}{K T_y} \right\} \int_{0}^{t} \exp\left\{ \frac{G t \xi}{K T_y} \right\} \frac{K}{\rho} \frac{\partial^2 \theta_r}{\partial t \partial x_i} dt \right] d\xi \quad (i = 1, 2, 3) \tag{6}$$

where $\S = T_y/T_y^*$, $R = \ln(T_M/T_y)$, $g = \omega/(1+\omega/\omega_y^*R)$, $G = K/(1+K/K_y^*R)$, $\omega_y^* = \omega_y/R$ and $K_y^* = K_y/R$, K_y and ω_y are the corresponding moduli not depending on T_y , $\omega_y/\omega_y/\omega_y/R$ and ω_y/R macroscopically characterize the compactness of the packing of the microparticles. In substances with large compactness (e.g., quartz) these values are very large and the damping very small. At depths of two Card 4/5

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The theory of paciliations ...

\$/020/61/138/006/006/019 B104/B214

to three kilometers under the surface of the earth all rocks are compact and the logarithmic decrement approaches one and the same value. The ratio of the velocities of the longitudinal and transverse waves also approaches the Hooke's ratio (1.7-1.9). There are 15 references: 10 Soviet-bloc and 3 non-Soviet-bloc.

ASSOCIATION: Institut fiziki Zemli : 0.Yu. Shmidta Akalemii nauk SBSR (Institute of Physics of the Earth imeni 0.Yu. Shmid: of the

Academy of Sciences bash)

PRESENTED: September 17, 1960, by A.P. Aleksaniras. Assismosian

SUBMITTED: September 15. 1960

Card 5/5

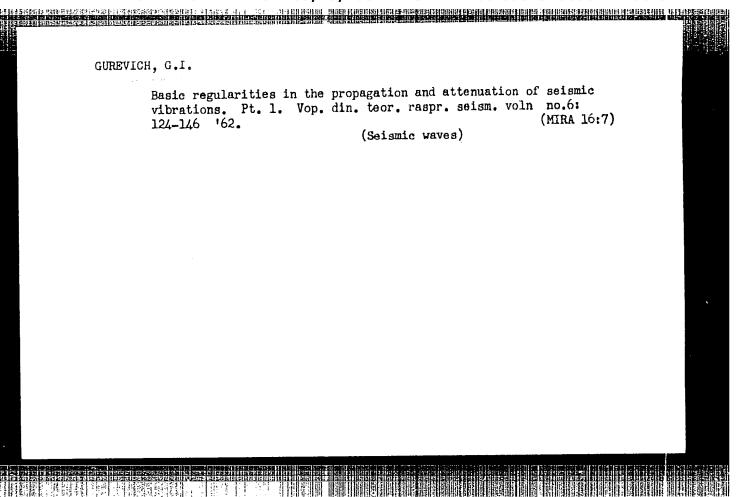
VAYNER, K.M.; CUREVICH, G.I.

Recent data on the geological structure of the Pytkov Kamen' region. Dokl. AN SSSR 142 no.6:1359-1361 F '62.

(MIRA 15:2)

1. Ukhtinskoye territorial'noye geologicheskoye upravleniye. Predstavleno akademikom D.V.Nalivkinym.

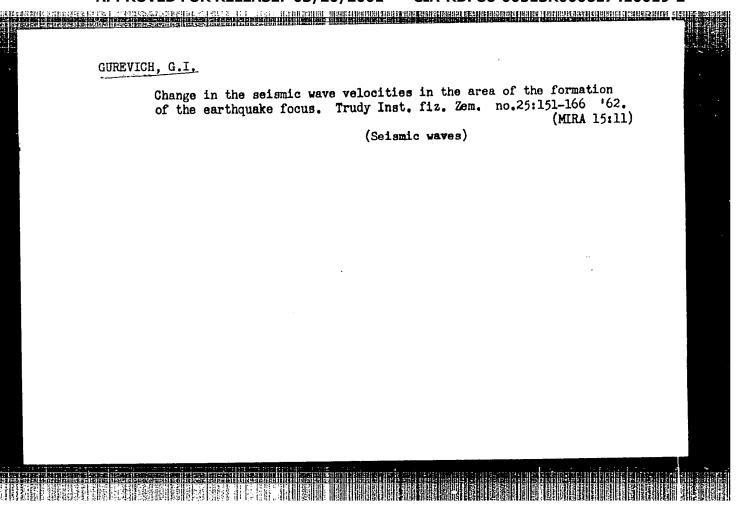
(Pytkov Kamen' Region—Geology)



VASIL'YEV, Yu.I.; GUREVICH, G.I.

Ratio between the decrements of attenuation and the velocity of the propagation of longitudinal and transverse waves. Isv.
AN SSSR. Ser.geofiz. no.12:1695-1716 '62. (MIRA 16:2)

1. Institut fiziki Zemli AN SSSR. (Seismic waves)



L 52539-65 ENT-1)/ENA(h Feb GN ACCESSION NR: AT5012708

UR/2585/64/000/001/0086/0060

3+1

AUTHOR: Gurevich, G.I.

TITLE: Basic laws of propagation and damping of selemic oscillations. II

SOURCE: Voprosy dinamicheskoy teorii rasprostraneniya seysmidheskikh voln. no. 7, 1964, 36-60

TOPIC TAGS: seismic wave propagation, seismic wave damping, uniformly deformed sample, dynamic oscillation equation, transverse wave damping, longitudinal wave damping, seismic compact medium

ABSTRACT: This is a continuation of an article under the same title published in the preceding symposium of the same series (Voprosy dinamicheskoy tecrii rasprostraneniya seysmicheskikh voln, no. 6, 1962, 1zd. LGU). It presents and theoretically discusses the behavior of materials under various leading conditions, the oscillation damping of a uniformly deformed sample, the dynamic oscillation equations and the damping of transverse waves, the expressions for the damping coefficient and the propagation velocity of the place longitudinal wave, certain relationships between the damping coefficients of outstuding and transverse waves in compact materials, the transition region from the state of increased porosity to the state of great compactness, and the damping of oscillations within Card 1/2

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THE PROPERTY OF THE PROPERTY O GUREVICH GIT 33441 5/064/62/000/001/004/008 B110/B138 5.3400 Fioshin, M. Ya., Lebedev, I. M., Kazakova, L. I., Gankin, S. Z., Khol'mer, O. M., Gurevich, G. I., AUTHORS: Neyman, Ye. Ya. Electrosynthesis of ω -oxypentadecanoic acid TITLE PERIODICAL: Khimicheskaya promyshlennost', no. 1, 1962, 41 - 43 TEXT: ω-oxypentadecanoic acid (I) is produced by "mutual" anodic condensation of ω-acetoxyundecanoic acid (II) and adipic acid monoethyl ester (III), during the electrolysis of an aqueous solution of a mixture of their salts: CH3COO(CH2)10COO + -OOC(CH2)4COOC2H5 CH3C00(CH2)14C00C2H5 + 2CO2 and then saponification of ethyl ester. The authors wished to obtain better yields by substituting the aqueous by an alcoholic medium, and the Pt anode by PbO2, magnetite, and graphite anodes. A cylindrical glass electrolyser with cylindrical, Pt anode, . ₫ : perforated Ni cathode and graphite rod anode concentrically arranged, was Card 1/3 شديق

後秦元經長 9年後到秦史 (1945年) 3 唐朝宗宗 (1945年) 15 [1] 15 [1] 15 [1] 15 [1] 16 [1] 33141 \$/064/62/000/001/004/005 B110/B138 Electrosynthesis of ... filled with an alcoholic solution of II, III, potash, and soda. Current intensity, voltage, and temperature were measured, and the electrolysis was used per ml of electrolyte. After distilling C_2H_5 OH at 20 mm Hg, the following quantities were fractionated at 2 - 5 mm Hg: (a) 30% at 160°C; (b) 25% at 183°C; and (c) 30% at 183 - 200°C. The (c) substance was the ester of I. ~10% ester was separated from (a) and (b). It was saponified for 2 hrs with a 50% KOH solution in the presence of ethanol, then acidified with HCl, and I was extracted with toluene. With 125 ml C2H50H, 21 g II, 45 g III, and 5 g K CO2, the I yield was 45 - 48% at 10 a/d m². As 3.42 times the theoretical amount of current is required with an aqueous solution, the yield, 27% must be appropriately divided: $27/3.42 \approx 8\%$. As Pt consumption is 150 g ton the possibility of using PbO₂, magnetite, or graphite was studied. The dependence of yield on electrolysis conditions was studied with nonporous graphite in ethyl and propyl alcohol with 112 g of II, 238 g of III, and 24 g of K2CO3 at 60 - 65°C. Yield of I, 48 - 50%, was not dependent on the current Card 2/3

CIA-RDP86-00513R000617410019-2 "APPROVED FOR RELEASE: 03/20/2001

331411 3/064/62/000/001/004/008 B110/B138 Electrosynthesis of ... intensity in a wide range. Maximum yields were obtained with a II : III ratio of 2 : 1 and 1 : 3 at 12 a/dm², 60 - 65°C and a $K_2^{CO}_3$ concentration of 20 g/liter. Voltage increases rapidly with anode density and decreases with $K_2^{CO_3}$ concentration. The optimum is 40 - 50 v. With 7 g/liter $H_2^{O_3}$. with $A_2 = 0.3$ contentration. The operation $A_2 = 0.3$ and $A_3 = 0.3$ and $A_4 = 0.3$ and $A_5 = 0.3$ decreasing to 35%, with 100 g/liter of $A_2 = 0.3$ decreasing to 35%, with 100 g/liter of $A_2 = 0.3$ current efficiency) are obtained with ethanol or propanol solutions of 112 g/liter II, 238.6 g/liter III, 24 g/liter K2CO3;, 7 g/liter H2O and anode density of 14 a/ $3m^2$ at 60 - 65°C. If the old solution was replaced when acidity reached 1.2 - 1.4 ml of 0.1 N KOH/ml, yield was 44 - 45% (41.5% current officiency) at 15 a/am2 and 65 - 70°C. Yield was almost doubled by using an alcoholic electrolyte (six times the current efficiency). Part II which is bound as a salt and does not react, can be recycled. The higher energy consumption (voltage increase 3 - 4 times) is compensated by increased current efficiency. There are 4 figures, 1 table, and 3 Soviet references. Card 3/3

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GUREVICH, G. I.

Cand Tech Sci

Dissertation: "On the Problem of Change in the Machanical Properties of Rigid Materials."

16 June 49

All-Union Sci Res Inst of Cinematography

SO Vecheryaya Moskva Sum 71

curryich, G. I.

USSR/Engineering - Strength of Materials

11 Jan 52

"Concerning the Criteria of Strength," G. I. Gurevich, Geophys Inst, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXXII, No 2, pp 245-248

Develops system of 3 eqs connecting chief deformations and stresses of elementary parallelepiped along 3 axes. Discusses transition of material from electric-plastic state to accelerated flow and, as result, viscous failure. Analyzes possibility of clarifying dependence of failure type not only on temp and rate of deformation but also on stressed state of material Submitted by Acad A. F. Ioffe.

COUNTY:

ं प्राप्त विभागत विभागत विभागत विभागत हो स्थापत स्थापत स्थापत स्थापत स्थापत स्थापत स्थापत स्थापत स्थापत स्थापत

GUREVICH, G. I.

"Correlation of Elastic and Residual Deformations in the General Case of Homogeneous Tension State", Tr. Geofiz. Inst. AN SSSR, No 21, 1953, pp 49-90.

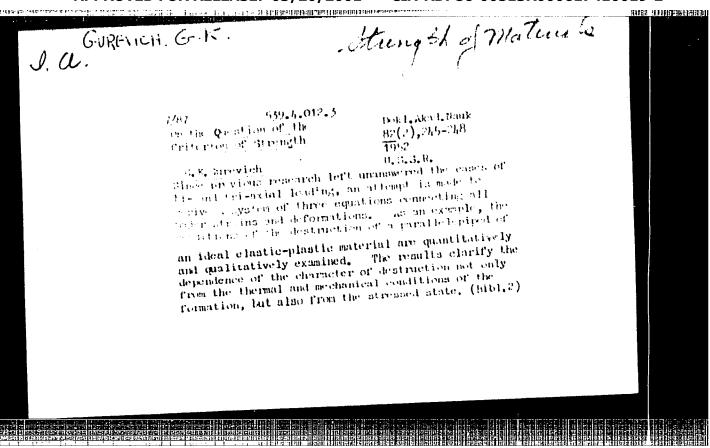
Attempt is made to derive equations relating the values of clastic deformation to the speed of formation of residual deformation for homogeneous and isotropic bodies of arbitrary structure. The equations of elasticity theory are completed with the temperature effect and the dependence of the activation heat on the state of tension. The elastic body is considered a system of material points bound by the action of central forces. (RZhFiz, No 1, 1955) SO: Sum. No. 443, 5 Apr. 55

CIA-RDP86-00513R000617410019-2

CIA-KUP86-00513R000617410019
THE PROPERTY OF FIOSHIN, M.Ya.; LEREDEV, I.M.; KAZAKOVA, L.I.; GANKIN, S.Z.; KHOL'MER, O.M.; GUREVICH, G.I.; NEYMAN, Ye.Ya. Electrosynthesis of ω -oxypentadecanoic acid. Khim.prom. no.1:41-43 (MIRA 14:1) Ja 162. (Pentadecanoic acid)

GUREVICH, Gedaliy Il'ich; LEBEDEV, N.N., red.; BORUNOV, N.I., tekhn.

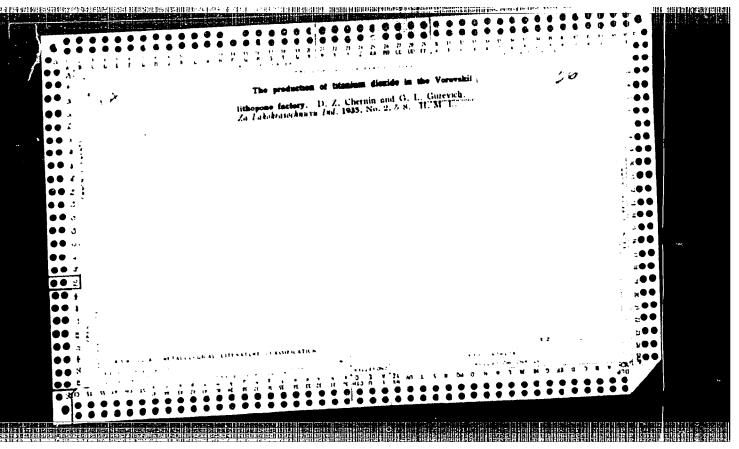
[Construction of 6-10 kv. substations with transformers having power ratings up to 560 kv.-a] Montazh podstantsii 6-10 kv. s transformatorami do 560 kva. Moskva, Gosenergoizdat, 1963. (Electric substations)



ALEKSANDROV, A.P.; GENKIN, G.M.; GUREVICH, G.L.; DUBININ, V.I.

Establishment of ferrite magnetization precession at high power levels. Fiz. tver. tela 5 no.10:2766-2770 0 63. (MIRA 16:11)

1. Radiofizicheskiy institut Gor'kovskogo gosudarstvennogo universiteta.



GuRevich, G. I.

I-27 Chemical Tachnology. Chemical Products and Their Application -- Fats and Oils. Waxes. Soops, Detergents. Flotation reagents.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10167

Samarin, I. Ya. and Gurevich, G. L. Luthor

Inst

: From the Operating Experience of the Goriki fats Processing Plant. Clarification of Soap stocks Title

with Hydrogen Perexide.

Moslob.-zhir. prom-st, 1953, No 4, 25-27 (in Russian); Khuasyua shitsza, 1953, Val 8, No 11, Orig Pub:

293 (in Chinese)

The soop stock is completely seponified in the Abstract:

cooking kettles, the sorp is selted out and

washed. The sone stock mass must be at an alkalinity of not under 0.10 and be maintained at that level throughout the subsequent treatment with hydrogen peroxide. The letter is diluted

card 1/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617410019-2

CHINI/Chemical Technology. Chemical Products and Their Application -- Fats and oils. Waxes. Boaps.

Detergents. Flotation reagents.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 10167

to a concentration of 10-15% and fed to the lbstract: kettled through a pipe terminating in a diffusor located 30-30 mm above the bottom of the k itle. through a pipe terminating in a diffuser located

30-50 mm above the bottom of the kettle. The treating time with hydrogen perexide is 2-2.5 The consumption of 30% H202 is 3-8% of the weight of the fat. During treatment with H202

the soap is agitated mechanically or by compressed

air.

1. SAMARIN, I. Ya.; GUREVICH, C. L.; Engs.

思述 医乳腺溶解性乳腺性乳毒素

- 2. USSE (600)
- 4. Soap
- 7. Work practice of the Gor'kiy Fat Combine. Masl. -zhir. prom. 18, No. 4, 1953.

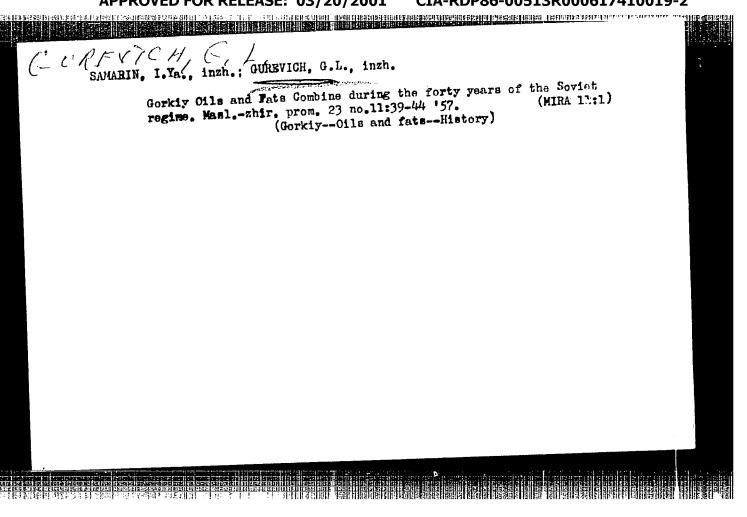
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

SAMARIN, I.Ya., inzhener; GUREVICH, G.L., inzhener. Marking boxes with an electric stamp. Masl.-zhir.prom. 18 no.5:27 My '53. (MLRA 6:5) (Marking devices) 1. Gor'kovskiy zhirkombinat.

SAMARIN, I.Ya., inzhener: GUEEVICH, G.L., inzhener.

Machine for cleaning rosin from barrel staves. Masl.-zhir.prom. 18 no. (MLRA 6:5)
5:27 My '53.

1. Gor'kovskiy zhirkombinat. (Barrels)



PANYSHEV, A.S., inzh.; GUREVICH, G.L., inzh.; GRAUERMAH, L.A., kand.tekhn.
nauk; KARAHTSEVICH, L.G.; UL'YANOVA, G.S.

Fiftieth anniversary of the industrial hydrogenation of fats. Masl.zhir.prom. 26 no.3:15-21 Mr '60.

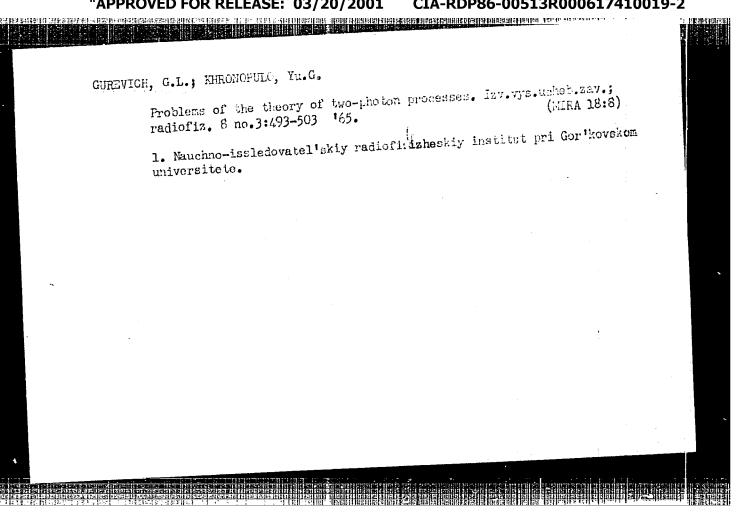
1. Gor'kovekiy maslozhirovoy kombinat (for Panyshev and Gurevich).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for
Grauerman, Karantsevich and Ul'yanova).

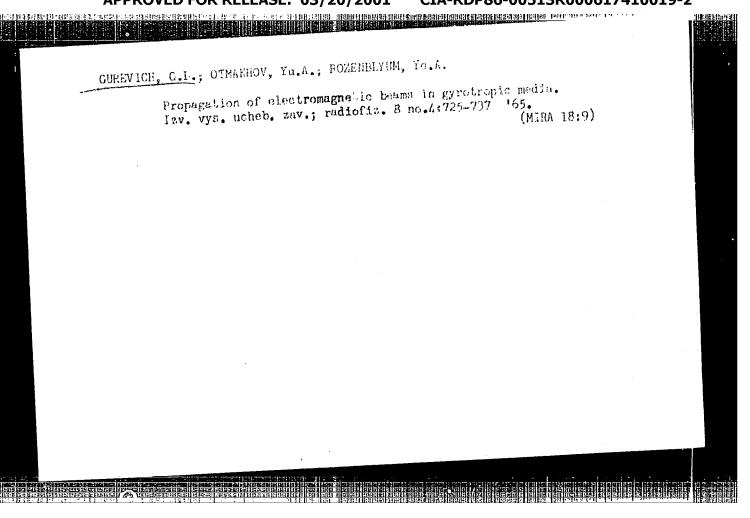
(Otls and fats)

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L 638L9-65 EVA(k)/FED/EWT(1)/EEC(k)-2/T/EEC	(p)-S\EMb(k)\EMV(u)+S\EMV(P) EMBERGHERMORE RESULTING SANTHEIN TRUMSS AZZUMING GRANGE BRITISH FROM
ACCESSION NR: AP5020361 AUTHOR: Gurevich, G. L.; Khromopulo, Yu. G. 44 TITLE: Some problems in the theory of two-photon	UR/0141/65/008/003/0493/9503 621.378.3 50 42 processes
SOURCE: IVUZ. Radiofizika, v. 0, no. 3, 1965, 49 TOPIC TAGS: resonator, radiation, incoherent sca	3-503
ABSTRACT: Combination and double radiation are s resonator with two natural optical frequencies, ω anti-Stokes process is possible under certain con second working level is metastable, even in the a citation of a Stokes process in such a system tak nal field amplitude range. If $\omega_1 + \omega_2 = \omega_{21}$, where between the working levels of the system, station and ω_2 can be obtained with sufficient incoherent stability of this mode of operation are found. "	n and we. It is shown that an ditions in the case where the baence of in one ent pumping. Ex- es place only in a definite exter- e well corresponds to the difference ary radiation of fields of both on numbing covers. The conditions for
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ACCESSION NR: AP50203	361					\mathbf{q}'
to express thanks to discussions." Orig.	/. I. Bespalov	, L. V. Pos formulas.	stnikov, and	V. N. Fay	n for usef	u. Ť
ASSOCIATION: Nauchno universitete (Scienti		mlala madia	fizicheskiy	institut p at Cor'kiv	ri Gor'ko Universi	nekom ty)
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SOURCE CODE: UR/0141/65/008/004/0725/0737

AUTHOR: Gurevich, G. L.; Otmakhov, Yu. A.; Rozenblyum, Ye. A.

ORG: none

ACC NR: AP5022796

TITLE: Electromagnetic beam propagation in gyrotropic media

SOURCE: IVUZ. Radiofizika, v. 8, no. 4, 1965, 725-737

TOPIC TAGS: electromagnetic beam, wave propagation, ferrite, electromagnetic wave diffraction, approximate solution

ABSTRACT: The problem of the propagation of electromagnetic beams in an infinite gyrotropic medium is solved with consideration of spatial dispersion. Specific examples of electromagnetic beam propagation in a ferrite with and without absorption are examined. The author examines the case where the ratio of the wavelength to the characteristic dimensions of the examines the case where the ratio of the wavelength to the characteristic dimensions of the field is small but not equal to zero. It is shown that in this case it is possible to obtain results in a form analogous to the Fresnel formula in the diffraction theory. In some cases this permits the direct use of the results of this theory. The approximation used by the authors is called quasi-optic and the solutions obtained in this approximation are called beams, as for isotropic media. Although the examination pertains to ferrites, the results can easily be ex-

Card 1/2

UDC: 621.371:538.245

tended to any gyrotropic medium The authors thank Y. I. Talanov	and to the c for his inter	ase of active linear rest in the work. C	media with torig, art, has	ensor parameters. : 6 figures and
45 formulas. SUB CODE: 12,20/SUBM DATE	: 100ct64/	ORIG REF: 006/	OTH REF:	003
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连接 医毛囊性 制度的复数形式 医大线性 医多元氏病 医多元氏性 医克利氏性 医克利氏性 医皮肤 经工程 计图像 计自由 电电子 计图像 计自由 电电子 医皮肤	
L 38104-66 FBD/EWT(1)/EEC(k)-2/T/EWP(k) IJP(c) WG SOURCE CODE: UR/0141/66/009/003/05	45/0549
ACC NR: AP6022080 AUTHOR: Butylkin, V. S.; Gurevich, G. L.; Kheyfets, M. I.; Khronopulo, Yu. G. ORG: Scientific Research Institute of Radiophysics, Gor'skiy University ORG: Scientific Research Institute of Inst	ete)
(Nauchno-issiedovater-ski) 1 (Nauchno-issiedo	
SOURCE: IVUZ. Radiofizika, v. 9, no. 3, 1966, 545-549 SOURCE: IVUZ. Radiofizika, v. 9, no. 3, 1966, 545-549 TOPIC TAGS: laser theory, laser R and D, nonlinear optics TOPIC TAGS: laser theory, laser R and D, nonlinear optics ARSTRACT: As a strong w-field exists in the resonator of conventi-	onal arise
lasers and as the populations of active substance. Equations described to the anti-Stokes process in the laser active substance. Equations described to the anti-Stokes process in the laser active substance. Equations described this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the stationary generated this process are set up and analyzed. It is found that the	ion se) an order se
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ACC NR: AP6037080

SOURCE CODE: ,UR/0056/66/051/005/1933/2-0.

AUTHOR: Gurevich, G. L.; Khronopulo, Yu. G.

ORG: Institute of Radio Engineering and Electronics, Academy of Sciences SSSE (Institut radiotekhniki i elektroniki Akademii nauk SSSR)

TITLE: The resonant parametric interaction of strong optical fields

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 5, 1966,

1499-1509

TOPIC TAGS: nonlinear optics, harmonic generation, parametric amplification

ABSTRACT: A theoretical study was made of the parametric interaction of three strong electromagnetic waves with frequencies ω_1 , ω_2 , and ω_3 which satisfy the condition $w_1 + w_2 = w_3$, where w_3 is the absorption frequency of the substance. The equations derived to describe the above interaction in non-inverted and inverted systems allow for the saturation effect. Studies were made of the qualitative differences existing between resonant and nonresonant parametric interactions, the generation of the sum frequency, and the parametric division of frequency. The analytical expressions derived for the attendant field strengths were shown to depend essentially on the rate of the two-photon absorption of the two fields E(w1) and $E(\omega_2)$. The maximum conversion factor of $E(\omega_1)$ and $E(\omega_2)$ into $E(\omega_3)$ was also determined. wined. The length at which a considerable energy transfer occurs was shown to depend

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THE PROPERTY OF THE PROPERTY O GUREVICH, G. M. USSR "Live Tail-Stock Centers", Kalibr, Stanki i Instrument, 10, No. 7, 1939. Engineer. Report U-1505, 4 Oct 1951.

CIA-RDP86-00513R000617410019-2" APPROVED FOR RELEASE: 03/20/2001

GUREVICH, G. M., Engineer

USSE

"Live Centers for Lathes." Stenki I Instrument

Vol. 15, No. 6, 1944

BR 52059019

BELYAKOV, F.Ye.; BABIN, B.N.; BAL', V.; BOROVKOV, P.N.; VOYEVODIN, I.N.;

GUREVICH, G.M.; GORBUNOVA, P.I.; KONNOV, A.S.; KALANTAROVA, M.V.;

KASHIRSKIY; A.Ye.; KAZANCHEYEV, Ye.N.; LEKSUTKIN, A.F.; LETI—

CHEVSKIY, M.A.; LOPATIN, S.Z.; MIRSKIY, V.N.; PODSEVALOV, V.N.;

SUBBOTINA, V.P.; TANASIYCHUK, N.P.; FEDOTOV, S.D.; FISENKO, K.N.;

EL'KIND, I.G.; BOVIN, S.S.; VASIL'YEV, L.T.; DRINKOV, V.D.; DALE—

CHIN, N.I.; DADAGOV, I.A.; YERMOSHINA, V.I.; ZHUKOV, I.V.; ZIMIN,

D.A.; IVANNIKOV, A.Ye.; KOVALEV, M.K.; LUGAKOVSKIY, N.L.; NALEVSKIY,

A.F.; SEREZHNIKOV, V.K.; SEMIGLASOV, M.D.; SOKOLOV, A.V.; STEPANOV,

V.I.; SAKHARIN, G.S.; SAVENKO, P.A.; SOLODOV, V.P.; UMEROV, Sh.Kh.;

CHIKINDAS, G.S.; SHCHERBUKHINA, S.N.; DYNKIN, G.Z.; LYSOV, V.S.;

OSHEROVICH, A.N.; ROKITSINSKIY, E.V.; BRASLAVSKIY, M.S.; RUDENKO,

I.A.; ZHUKOBORSKIY, M.S.; ZHDANOV, I.Ye.; SUSLIN, V.A.; BRUS, A.Ye.;

VOLYNSKIY, S.A.; KLYUYEV, V.A.; ISTRATOV, A.G.; TIKHOMIROV, I.F.;

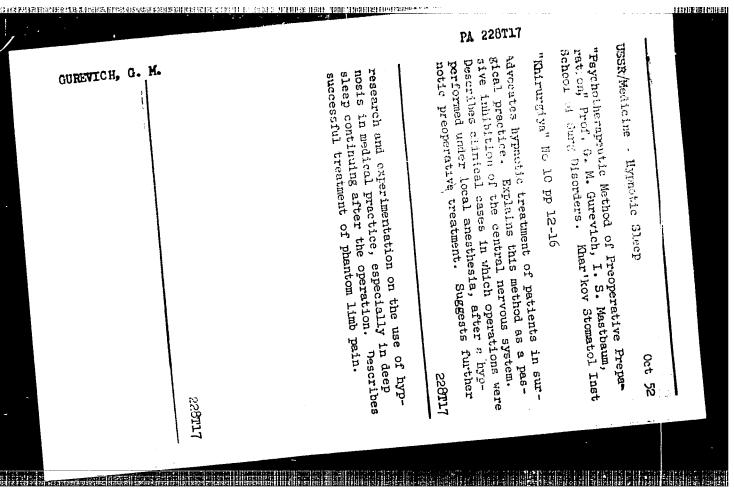
BUTYRIN, Ya.N.; VOLYNSKIY, S.A.; MINEYEV, M.F.; MAL'TSEV, V.I.;

VIDETSKIY, A.F., kand.tekhn.nauk, glavnyy red.; DEMIDOV, A.N., red.;

KRAVETS, A.L., red.; KLIMOVA, Z.I., tekhn.red.

[Industrial Astrakhan] Promyshlennaia Astrakhan'. Astrakhan'. Izd-vo gazety "Volga," 1959. 318 p. (MIRA 12:11)

Astrakhan (Province) Ekonomicheskiy administrativnyv rayon.
 (Astrakhan Province--Economic conditions)



SOROKIN, N.M., kandidat meditsinskikh nauk, zaveduyushchiy; STELLING, Ye.V., glavnyy vrach; GUREVICH. G.M., professor, zasluzhennyy deyatel' nauki; BAZLOV, Ye.A., dotsent, direktor.

Diagnostic value of roentgenological and cytological method of examination of tumors and tumor-like neoplasms in the parotid gland. Vest.rent.i rad. no.3:7-13 My-Je 153. (MLRA 6:8)

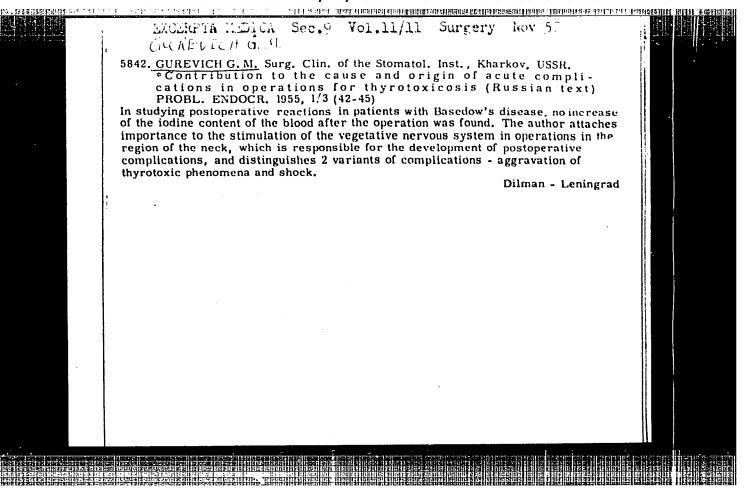
1. Khirurgicheskoye otdeleniye Stalinskogo oblonkodispansera (for Sorokin).
2. Stalinskiy oblonkodispanser (for Stelling). 3. Khirurgicheskaya klinika Khar'kovskogo rentgeno-radiologicheskogo i onkologicheskogo instituta (for Gurevich). 4. Khar'kovskiy rentgeno-radiologicheskiy i onkologicheskiy institut (for Bazlov). (Parotid glands-Tumors) (Diagnosis-Radioscopic)

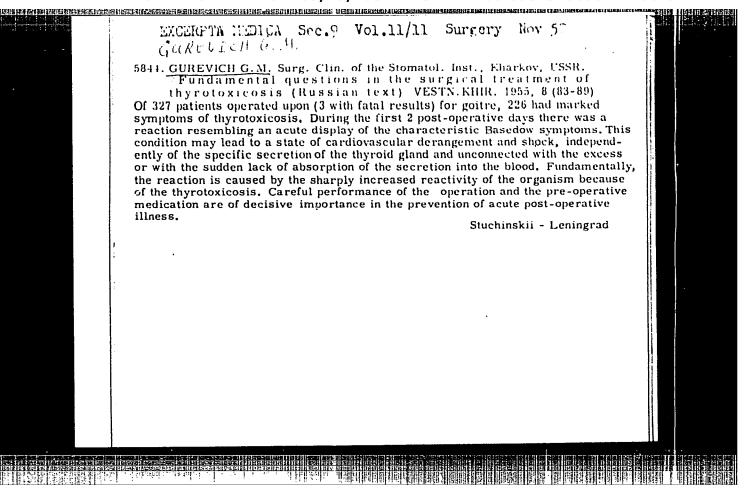
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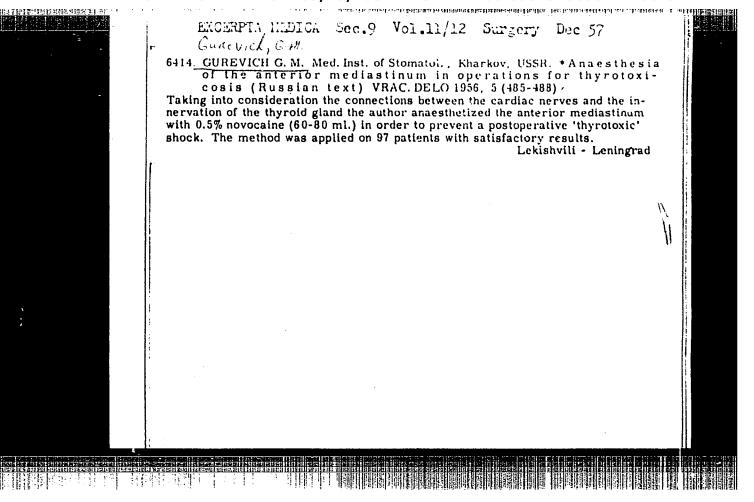
GUREVICH, G.M., professor, zasluzhennyy deyatel nauki, zaveduyushchiy; VIASEUKO, P.V., direktor.

Role of shock in the pathogenesis of annerobic infection. Vest.knir. 73 no. 4:3-8 J1-Ag '53. (HLRA 6:8)

1. Kafedra khirurgicheskikh bolezney Khar'kovskogo meditsinskogo stomatologicheskogo instituta (for Gurevich). 2. Khar'kovskiy meditsinskiy stomatologicheskiy institut (for Vlasenko). (Infection) (Bacteria, Anaerobic) (Shock)







3200. THYROID FT TREATMENT KLIN. MED. (Post-operative function by the thyroid stum depends not solely the change of the nauthors confirm the which should not be	(Mosk.) 1957, 35/4 action was tested by mp. The conclusion on the mechanical recurohumoral and ne theory of bi-direct e considered as the	CRTHYROIDISM FOLLO iureyich G.M. and (105-109) Tables 4 measuring the radioact was that the effectiven- removal of the glandula uroconductive regulati- tional action of the thyr- only stimulant because the of the thyroid gland	OWING SURGICAL Dyskin V.P. tivity of I 131 absoress of the operation or tissue but also on in the stump. Teotropic hormone	bed n n he	
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GUREVIGH, 0.M., prof., zasluzhennyy deyatel' nauki (Khar'kov)

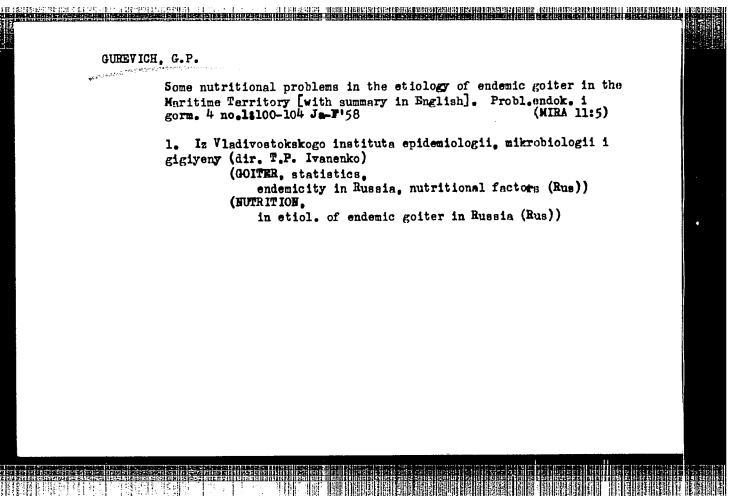
Clinical experiences with parathyroid tetany. Probl. endok. i gorm.
5 no.2:52-57 Mr-Ap '59.

1. Iz khirurgicheskoy kliniki Khar'kovskogo gosudarstvennogo meditsinskogo stomatologicheskogo instituta (dir. - dotsent G.S. Voronyanskiy)

(TETANY, case reports,

(Rus))

Heeding during when surgery is i klin.khir. i go	Electing during the operation and in the postoperative when surgery is performed on the thyroid gland. Trudy is klin.khir. i gemat. AN Gruz.SSR 10:163-167 162.				
(HEMORRHAGE		IYROID GLAND		(MIRA 16%2)	
				· 🔨	



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OURBVICH, G.P. (Vladivostok).

Some data on the role of soil and water factors in the etiology of endemic goiter in Maritime Territory. Probl. endokr. i gorm. 4 no.5:106-109 S-0 '58.

1. Iz Primorskogo nauchno-issledovatel'skogo instituta epidemiologii, mikrobiologii i gigiyeny (dir. T.P. Ivanenko).

(GOITER, epidemiology,
endemicity in Russia, relation to soil & water chem (Rus))

(MATER SUPPLY,
chem. relation to goiter endemicity in Russia (Rus))

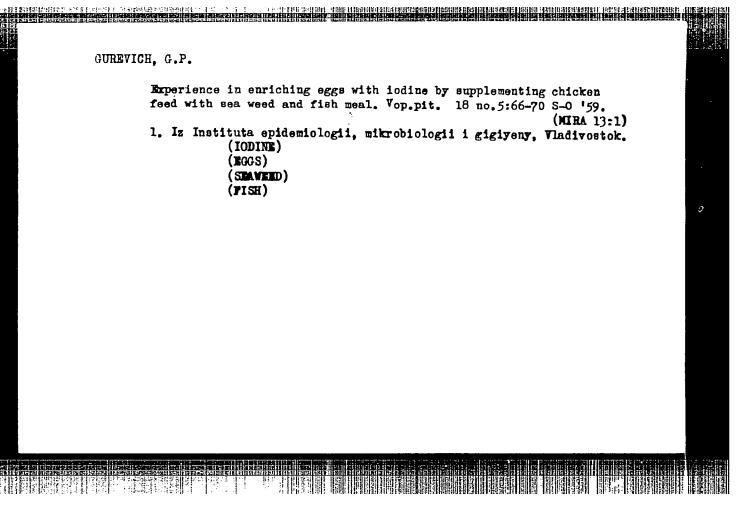
(SOIL,
same)
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GUREVICH, G.P., kand.biol.nauk; MUKHINA, L.D. (Yladivostok)

Data on the thyroid gland in the population of the Maritime
Territory [with summary in English]. Probl.endok. i gorm. 4
no.6:52-55 N-D '58. (MIRA 12:2)

1. Is Vladivostokskogo instituta epidemilolgii, mikrobiologii i
gigiyeny (dir. T.P. Ivanenko) i krayevoy bol'nitsy (glavnyy vrach
v.V. Miryan).

(THYROID GLAND,
iodine content & weight, autopay statist. (Rus))



GURRVICH, G.P., kand.biol.nauk

New mehtod of prophylaxis of endemic goiter in the Maritime Territory. Vrach.delo no.11:1205-1207 N '59. (MIRA 13:4)

 Vladivostokskiy institut epidemiologii, mikrobiologii i gigiyeny. (MARITIME TERRITORY--GOITER) (SEAWEED) (FISH-SCRAP FERTILIZER)

GUREVICH, G.P.

Iodine content of food products from the Maritime Territory.
Vop. pit. 19 no. 5:57-59 S-0 '60. (MIRA 14:2)

1. Iz Vladivostokskogo instituta epidemiologii, mikrobiologii
i digiyeny. (MARITIME TERRITORY—IODINE)

GUREVICH, G.P., kand.biologicheskikh nauk

A biogeochemical province, poor in iodine, cobalt, and molybdenum. Gig. i san. 26 no.5:95-97 My '61. (MIRA 15:4)

1. Iz Vladivostokskogo instituta epidemiologii, mikrobiologii i gigiyeny.

(MARITIME TERRITORY-MINERALS IN SOIL)

GUREVICH, G.P.

Natural amount of copper and zinc in food products of the Maritime Territory. Vop. pit. 20 no.5:38-40 S-0 '61. (MIRA 14:10)

1. Iz Vladivostokskogo instituta epidemiologii, mikrobiologii i gigiyeny.

(MARITIME TERRITORY_MINERALS IN FOOD) (COPPER) (ZINC)

GUREVICH, G.P., kand.biologicheskikh nauk; BELOV, N.M., nauchnyy sotrudnik

Enriching milk with iodine by feeding algae and fish meal to coms.

Veterinariia 38 no.1:71-72 Ja *61. (MIRA 15:4)

1. Primorskaya opytnaya sel'skokhozyaystvennaya stantsiya.

(Milk.—Composition) (Algae as food)

(Fish meal) (Iodine)

在京港市大学、美術市(1417)5、1、1、1、1、1月1月美国的、中国的科学的股票和10月11月新年的10月11月日 日本省本市 中国的美国的日本省本省中国的

GUREVICH, G.P.

Utilization of local iodine-containing fertilizers as a measure for the prevention of endemic goiter. Trudy VladIFVG no.21202-207 162.

Adoption of various iodine compounds by the animal organism in relation to a new method of preventing endemic goiter in the Maritime Territory. Ibid.: 207-209

Some data on the molybdenum content in some objects of the external environment in the Maritime Territory. Ibid.:209-210 (MIRA 18:3)

1. Iz Vladivostokskogo nauchno-issledovatel skogo instituta epidemiologii, mikrobiologii i gigiyeny.

GUREVICH, G.P.; MALYUTINA, L.I.

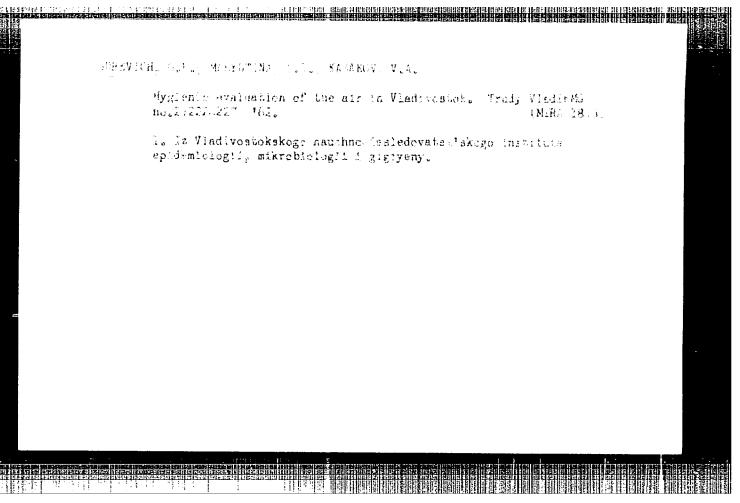
Natural content of cobalt in the soil and foods in the Maritime Territory in relation to the problem of endemic goiter. Trudy VladIEMG no.2:211-213 '62. (MIRA 18:3)

1. Iz Vladivostokskogo nauchno-issledovatel'skogo instituta epidemiologii, mikrobiologii i gigiyeny.

GUREVICH, G.P., KHMFLEVA, M.G., KUZNETSOVA, M.S.

Content of fodine, cobalt and copper in the rations of students of a boarding school in Vladivostok. Trudy VladIEM3 no.23 214-216 '62. (MIRA 18:3)

1. Iz Vladivostokskogo nauchno-issledovatel skogo instituta epidemiologii, mikrobiologii i gigiyeny i Vladivostokskoy gorodskoy sanitarno-epidemiologicheskoy stantaii.



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GUREVICH, G.P.

Soil fertilization with iodine resources of the Maritime Territory as a prophylactic measure against endemic goiter. Izv.AN SSSR.Ser. biol. no.5:791-796 S-0 '62. (MIRA 15:10)

1. The Vladivostok Research Institute of Epidemiology, Microbiology and Hygiene.

(MARITIME TERRITORY-GOITER) (IODINE-PHYSIOLOGICAL EFFECT)

A SECOND AND A SECOND DESCRIPTION OF THE SECOND PROPERTY OF THE SECO

"Additional feeding % of algae and fish meal to cows as experimental means for the enrichment of milk with iodine."

Veterinariya, Vol. 38, No. 1, p. % 71, 1961.

GERTSEN, G.A.; CUREVICH, G.R.; KUL'PIN, L.G.

Determination of the parameters of a layer based on observations on the nonsteady linear gas flow. Trudy MINKHIGP no.29:70-80 '60.

(Oil reservoir engineering)

(MIRA 13:12)

KOSTYLEVA, L.A., kand.med.nauk; GUREVICH, G.R., inzh.; STUPKINA, N.V.

Apparatus for the accommodation of the armless. Ortop, travm.i
protez. no.5:47-51 '61.

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta
protezirovaniya (dir. - dotsent M.V. Strukov).

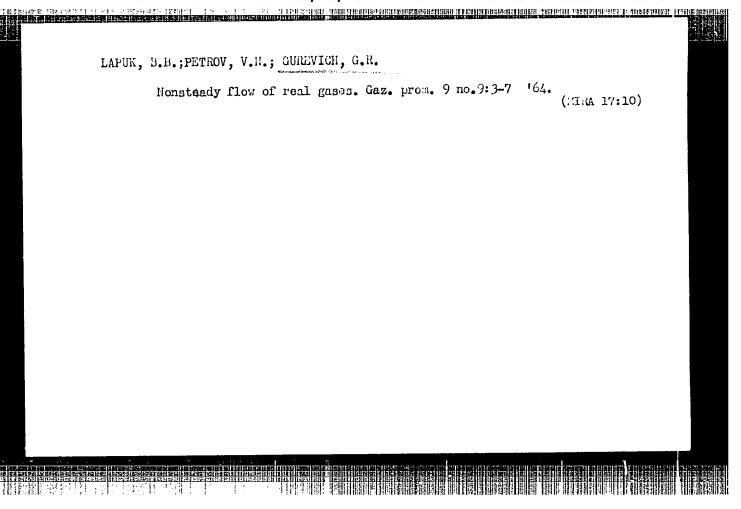
(ORTHOPEDIC APPARATUS)

(AMPUTATION STUMPS)

BASNIYEV, K.S.; GUREVICH, G.R.; NIKOLAYEVSKY, V.N. (Moscow)

"On gas-condensate flow in porous media"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964



GUREVICH, G.S.; LEVIN, S.Z.; DINER, I.S.

Stereochemistry of cyclohexanedicarboxylic acids. Part 2: Stereo-chemistry of the catalytic hydrogenation 1f dimethyl ether of cyclohexane-1,4-dimethanol. Zhur.ob.khim. 34 no.2:696-699 F '64. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel skiy institut neftekhimicheskikh protsessov.

S/204/62/002/004/012/019 E075/E435

AUTHORS:

Levin, S.Z., Diner, I.S., Gurevich, G.S.

TITLE:

Catalytic hydrogenation of dimethylester of

terephthalic acid

PERIODICAL: Neftekhimiya, v.2, no.4, 1962, 566-572

In view of scarcity of data on the industrial preparation of hexahydrophthalic acid, hexahydroisophthalic acid and TEXT: hexahydro-p-xylyleneglycol, an investigation was carried out of the hydrogenation of phthalic acids. The catalysts examined were: The experiments were Zn-Cr, Cu-Cr-Ni, Ni-Cr and Ni on Kieselguhr. conducted in a steel autoclave with a powdered catalyst suspended in the molten reactant. Ni-Cr and Ni on Kieselguhr catalysts gave an 85 to 89% yield of hexahydrodimethylterephthalate under a wide range of pressures and temperatures. For the Ni on Kieselguhr catalyst, pressures from 150 to 300 atm and The best conditions temperatures from 180 to 300°C can be used. are: pressure 150 atm, temperature 240°C, giving yields of the The product constitutes a mixture of product of up to 90%. stereoisomers of hexahydrodimethylterephthalate. Card 1/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617410019-2"

Catalytic hydrogenation ...

S/204/62/002/004/012/019 E075/E435

hydrogenation reaction leads to the formation of cis-isomer and the presence of trans-isomer is due to a secondary isomerization reaction. The ratio between the two isomers depended strongly on the reaction temperature and pressure, the highest yield of the trans-isomer obtained being 60 to 70%. Hexahydro-p-cylene-glycol was prepared by using Cu-Cr catalyst reduced with H2. The apparatus and conditions used were similar to those given above (temperature - 300°C, pressure - 300 atm). To obtain the highest yields of the product (94 to 95%) the catalyst concentration must be between 8.0 and 10.0% wt. of the feedstock. An unsuccessful attempt was made to produce individual isomers of the glycol by hydrogenation of the pure isomers of hexahydrodimethylterephthalate. There are 1 figure and 6 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov (All-Union Scientific Research Institute of Petrochemical Processes)

Card 2/2

GUREVICH, G.S.; IEVIN, S.Z.; DINER, I.S.

Stereochemistry of cyclohexanedicarboxylic acids. Part 1:
Cis-trans-isomerization of dimethyl ester of cyclohexane-1,4-dicarboxylic acid. Zhur.ob.khim. 33 no.6:1916-1919 Je '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.
(Cyclohexanedicarboxylic acid) (Stereochemistry)

GUREVICH, G.S.; LEVIN, S.Z.; DINER, I,S.

Production of hydroaromatic dicarboxylic acids. Zhur.prikl.
khim. 37 no. 5:1139-1141 My '64. (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov.

IEVIN, S.Z.; KAPPOV, A.Z.; SEDOVA, I.G.; BATENINA, A.D.; GREYICH, C.S.

Hydrogenation of butyraldehydes on industrial nickel-chronium
64.
catalysts. Zhur. prikl. khim. 37 no.6:1391-1394 Je 64.
(MIRA 18:3)

LEVIN, S.Z.; SEDOVA, I.G.; KARPOV, A.Z.; BATENINA, A.D.: GURZYATE, G.S.

Hydrogenation of C6 - C8 aliphatic aldehydes on a zin-containing catalyst. Zhur.prikl.khim. 37 no.7:1631-1633 J1 *164.

(MIRA 18-4)

1. Vsesoyuznyy nauchno-issledovatel*skiy institut nef*ekhim-cheskikh protsessov.

IEVIN, S.2.; GMERVICH, G.G.; CKI-MA. 1.7.; BATERUNA, A.D.

Rydrogenation of butyraldehydes on a mixed zirc exide catalyst.

Zhur. prikl. khim. 37 no.8:1822-1843 Ag 164.

(MISA 17:11)

1. Vaesoyaznyy nauchno-izaleh vateriskiy institut hettekhimi-cheskikh proteessov.